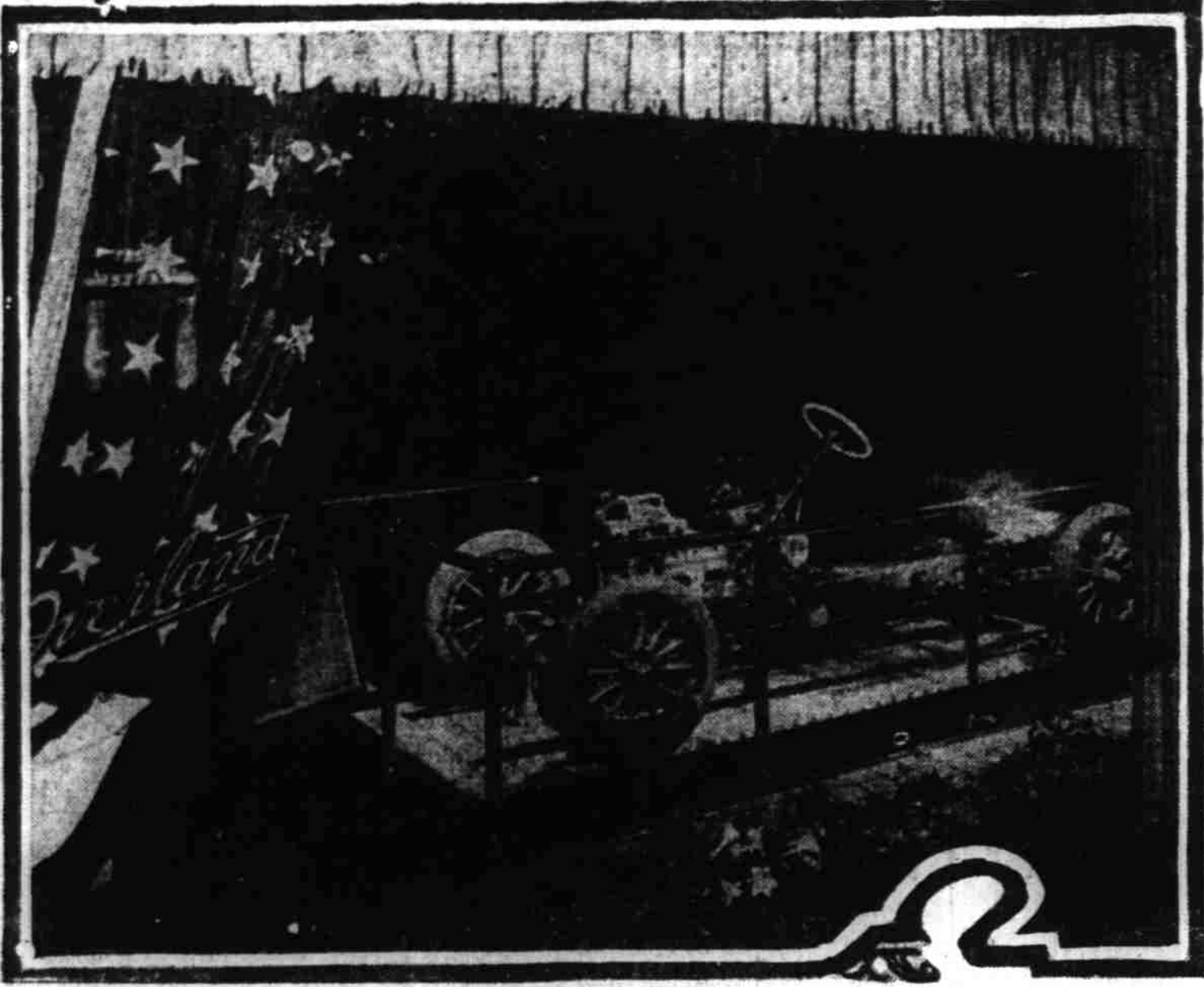


KNIGHT ENGINE SHOWN IN OPERATION TRACTOR SUCCESSFULLY REPLACES ARMY MULE



In the illustration above is shown a Willys-Knight chassis which is being displayed in the Willys-Overland Co.'s salesrooms, in New York City. The chassis has been "cut out" to show the working of the Knight type engine, which is kept in operation by an electric motor.

LESS JOYRIDING WILL SAVE GAS FOR ALLIES' USE

After a careful investigation of the present gasoline situation Van H. Manning, director of the bureau of mines of the department of the interior, has issued the following statement:

"One-half of the gasoline used in the United States (1,250,000,000 gallons) is used in pleasure riding.

"It is estimated that the United States Army will need 350,000,000 gallons for aeroplanes, trucks, automobile tractors, and other machines. There is no way of obtaining this in this country except by saving from the existing supply, and this economy may be effected by voluntary cutting down of pleasure riding (for instance, the man who takes his family out on Sunday for a 50-mile ride can cut this in half).

"It has been estimated that by economical use enough gasoline can be saved to supply not only the United States but also its allies for war purposes.

"The following suggestions should

be observed by automobile owners:

"1. Do not allow your gasoline engine to run idle.

"2. Use kerosene, not gasoline, for cleaning purposes in the garage.

"3. See to it that the carburetor does not leak. Form the habit of shutting off the gasoline at the tank.

"4. By judicious regulation of the mixture of gasoline and air in the motor both greater power and economy of fuel may be obtained.

"Automobile owners need not lay up cars, but should use them either for trade or pleasure purposes thoughtfully and judiciously. If this advice is followed there will be no undue scarcity, for the United States possesses an abundant supply for ordinary purposes."

AUTO PLANTS IN AMERICA.

To build and market the 1,648,586 motor cars that statistics show were disposed of by the American automobile industry in 1916, required the labor of 575 manufacturers of complete cars (there were 512 in 1915), 26,000 automobile dealers, 24,000 garages and 20,000 machine shops.

TRUCKS IN JAPAN

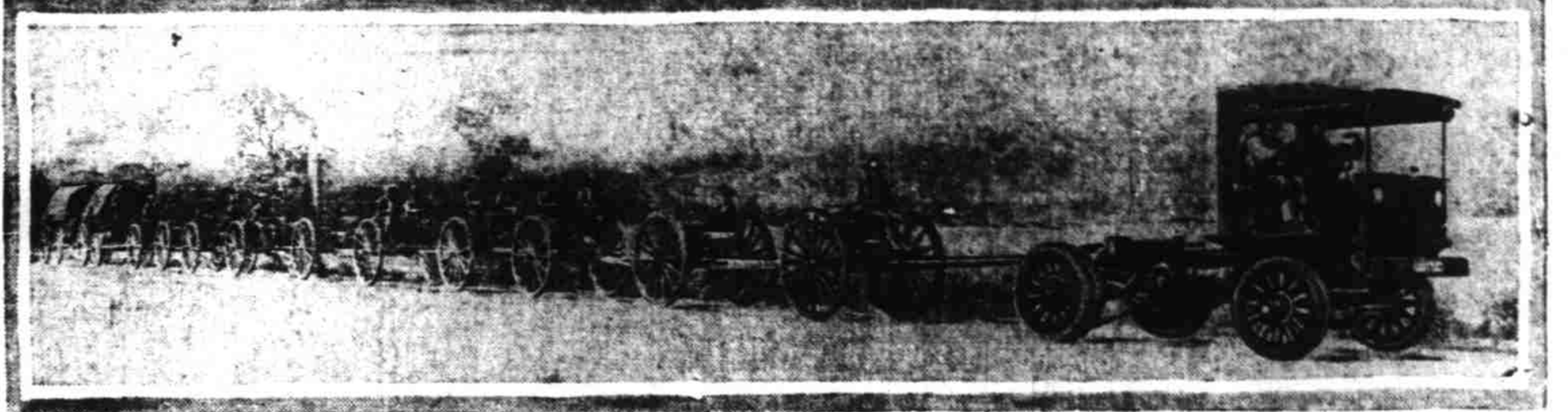
For so-called "quick delivery" of light parcels the bicycle is used extensively in Japan, and motorcycles, with sidecar attachments, are coming into popularity, but there are only 21 motor trucks in the whole empire.

WHAT WOULD WE DO WITHOUT THE MOTOR TRUCKS?

"At this time when a rapid and flexible means of transporting men and goods is a governmental as well as a business necessity, just imagine the United States as an automobileless nation," says George A. Kissel, president of the Kissel Motor Car Co.

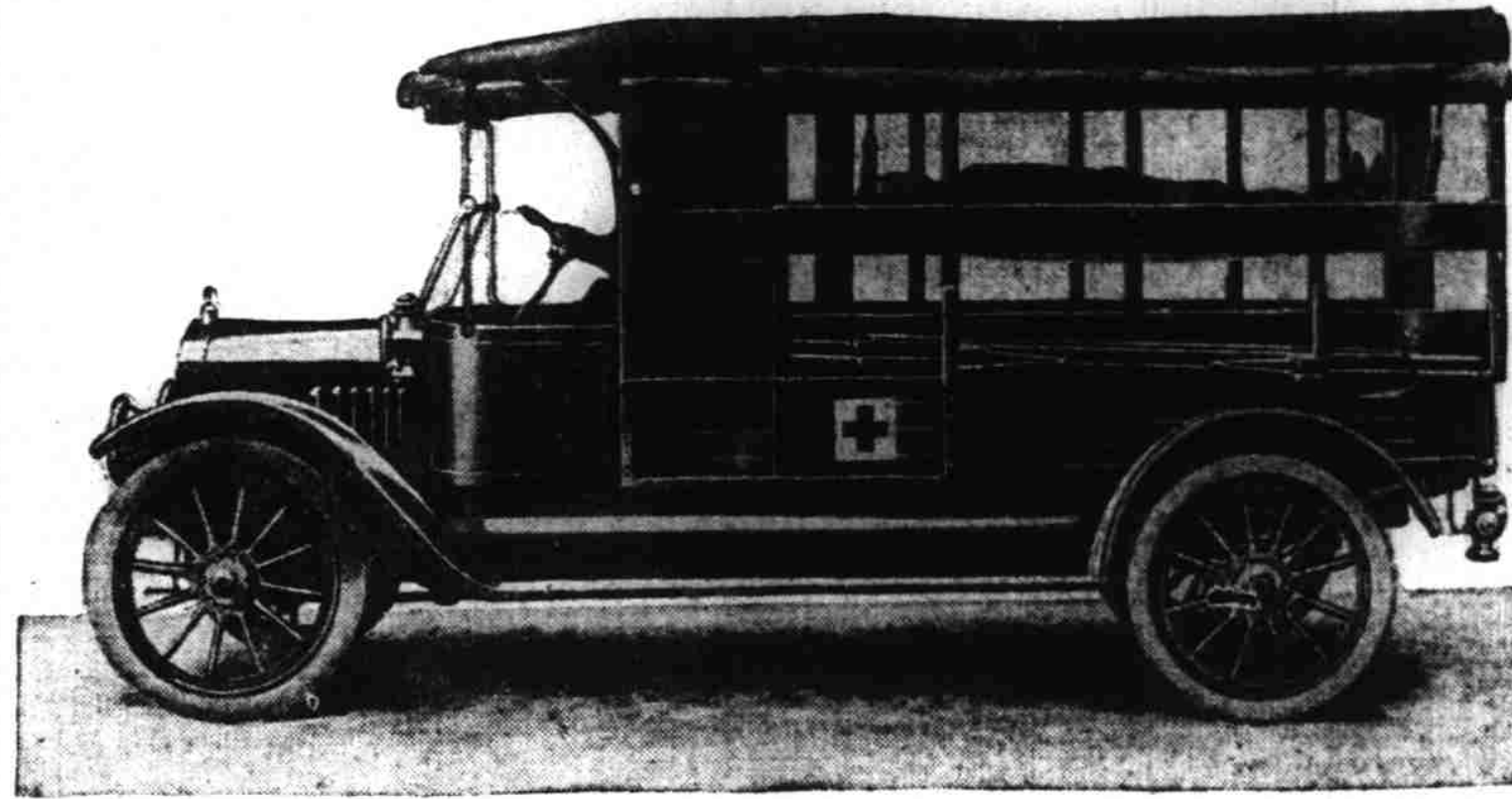
"Just imagine the delay if the hundreds of thousands of tons of goods now being hauled and delivered by motor trucks were dumped on to the railroads; likewise the millions of people who through the perfection of the automobile are able to travel economically and quickly. Imagine the congestion and confusion that would result if our city streets were minus automobiles, and horses and wagons took their places.

"Consider how the automobile has increased real estate values by bringing agricultural centers and suburban districts in closer touch with cities, and again consider how through the use of the automobile, man's efficiency has been increased. The time it saves



How well the motor vehicle is replacing the army mule may be judged from the accompanying illustration, which shows a Garford 10-ton tractor hauling artillery and mess wagons of the Illinois national guard.

ARMY AMBULANCE ADOPTED BY THE GOVERNMENT



Transportation problems for the sick and wounded at the front are one of the important matters with which the army chiefs have to contend. It is only recently that the United States determined on the correct specification for ambulance wagons for use behind the battle lines. The United States ambulance board has adopted the Babcock standard United States ambulance, of composite steel and wood construction, on account of its extreme lightness and strength. No nails, only bolts and screws, are used. All parts are replaceable. The special ambulance design carries eight patients sitting and four prone.

Of the prominent commercial chassis on the market one which meets the requirements called for by the ambulance body and the demanded government performance is the converted H-D, which uses the Ford chassis extended to give it a wheelbase of 130 inches. This is the practical minimum wheelbase which can be used with the ambulance body as named in the government specification. The H-D ambulance is made by the Hayes-Dieselder Co., No. 237 West Fifty-fifth street, New York.

him has resulted in a greater earning capacity.

"When the history of the present generation is written, the automobile will be given the credit for enabling the world to do things that man never before dreamed of."

WOULD ABOLISH FEE.

Abolition of the 50 cent permit fee on Sundays at the border is to be sought by the Automobile club of Canada, Montreal, which is approaching the Collector of Customs on the point. It is pointed out that no such regulation is enforced by the American authorities, and it is felt that there is no need for it on the Canadian side.

The principal crude rubber market of the world is Singapore. To this port the big rubber plantations of the east ship their crude rubber offerings, for sale at the weekly auctions. Goodyear Tire & Rubber Co. experts are on the ground to inspect each lot of crude rubber before bidding. These men are not only familiar with the numerous grades of rubber, but must know the peculiarities of the product of each plantation. They watch for the rubber from the more efficiently

The illustration of the H-D ambulance herewith shows the exterior of the body. The equipment includes litter carriers and holders. The chassis upon which this body is mounted employs all Ford units, but has in addition an extension at the rear and suitable reinforcing members where required. The extension units add 30 inches to the wheelbase and thus permit of the use of the government body without excessive overhang. A notable feature of the H-D system is that no drilling is required to install it, and if desired, it may be removed as quickly as it was installed.

managed plantations, on account of its superior cleanliness. Though the cable charges between Akron and Singapore are heavy—and no abbreviated code messages are permitted in these war times—the Goodyear factory is in constant cable communication with its staff of crude rubber experts on the other side of the world.

BAKERSFIELD CLAIMS

NOVEL AUTO RECORD

Bakersfield, with a 15,000 population, has one motor car to every six inhabitants. One reason for this unusual proportion is the fact that mo-

tor vehicles endure the heat of the San Joaquin valley much better than horses, and another is the element of speed.

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Oldsmobile	4-pass. Roadster. 7-pass. Touring.
Oakland	2-pass. Runabout.
Stearns-Knight "8"	7-pass. Touring. (Price will raise \$100.00)
Chalmers	5-pass. Touring. 7-pass. Touring.
Overland	Model 90—4-pass. Runabout Model 85—4-pass. Touring. Model 85—5-pass. Touring.

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